



DR 1114 JANUARY 1980 AD

METEOROLOGICAL DATA REPORT

19705B MLRS Missile Nos. 331, 196 Round Nos. B-72, B-73 11 January 1980

by

White Sands Meteorological Team

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ATMOSPHERIC SCIENCES LABORATORY WHITE SANDS MISSILE RANGE, NEW MEXICO

UNITED STATES ARMY ELECTRONICS COMMAND

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19705B MLRS	The state of the s
Missile Number 331, 196	
Round Numbers B-72, B-73	6. PERFORMING ORG, REPORT NUMBER
7. AUTHOR(a)	8. CONTRACT OR GRANT NUMBER(N)
	16
White Sands Meteorological Team	DA Task/1F665702D127-02
9. PERFORMING ORGANIZATION NAME AND ADDRESS	10. PROGRAM ELEMENT PROJECT, TASK AREA & WORK UNIT NUMBERS
	127/3
·	1
II. CONTROLLING OFFICE NAME AND ADDRESS	12. REPORT DATE
US Army Electronics Research & Development Cmd /// Atmospheric Sciences Laboratory	Jandany 1980
White Sands Missile Range, New Mexico 88002	18
14. MONITORING AGENCY NAME & ADDRESS(II ditterent from Controlling Office)	15. SECURITY CLASS. (of this report)
US Army Electronics Research & Development Cmd	UNCLASSIFIED
Adelphi, MD 20783	15#, DECLASSIFICATION DOWNGRADING
16. DISTRIBUTION STATEMENT (of this Report)	
DISTRIBUTION STATEMENT (of the ebetract entered in Block 20, If different fro	m Report)
Approved for public release; distribution unlimited	•
18 SUPPLEMENTARY NOTES	
14 KEY WORDS (Continue on reverse side if necessary and identify by block number,)
20 ABSTRACT (Continue on reverse side if necessary and identify by block number)	OZOED MIDE Minite
Meteorological data gathered for the launching of 19 Numbers 331, 196, Round Numbers B-72, B-73 are presented	פועסט אנאס, אונאסן. ented in tabular form.
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INTRODUCTION

19705B MLRS	, Missile N	umbers <u>331</u>	and 196	,
Round Numbers	B-72	and B-73	, were launched	from Snake Site,
White Sands M	issile Range (WSMR), New Mexico, a	t 1129:36	and 1129;40 MST,
on 11 January	1980 . Th	e schedule laund	ch times were 1100	and
1100:04 MST.	'			
		DISCUSSION		
Meteorologica	l data were record	ed and reduced t	oy the White Sands Me	eteorological
-			rite Sands Miss ile Ra	•
	obtained by the f			•
	rvations	ū		
a.	Surface			
	(1) Standard surf	ace observations	to include pressure	e, temperature
(°C), relative	e humidity, dew po	int (OC), densi	ty (gm/m ³), Wind dire	ection and speed,
	er were made at th		Met Site at T-	
	(2) Anemometer da	ta were provided	from existing pole-	mounted and
tower-mounted	anemometers at LC	-33. Monitor of	f wind speed and dire	ection from one
anemometer wa	s also provided in	the launch conf	trol room.	
b.	Upper Air			
	(1) Low level win	d data were obta	ained from RAPTS T-9	pihal observa-
tion at:				
		SITE AND ALTI	TUDE	
		SNAKE 2Km DENVER 950m		
	(2) Air structure	data (rawinson	de) were collected at	, the following
Met Sites. D	ata were collected	from surface to	9 1,000 fee	it in 500-feet
increments.				
		SITE AND TIE	<u>ME</u>	

JALLEN 1130 MST

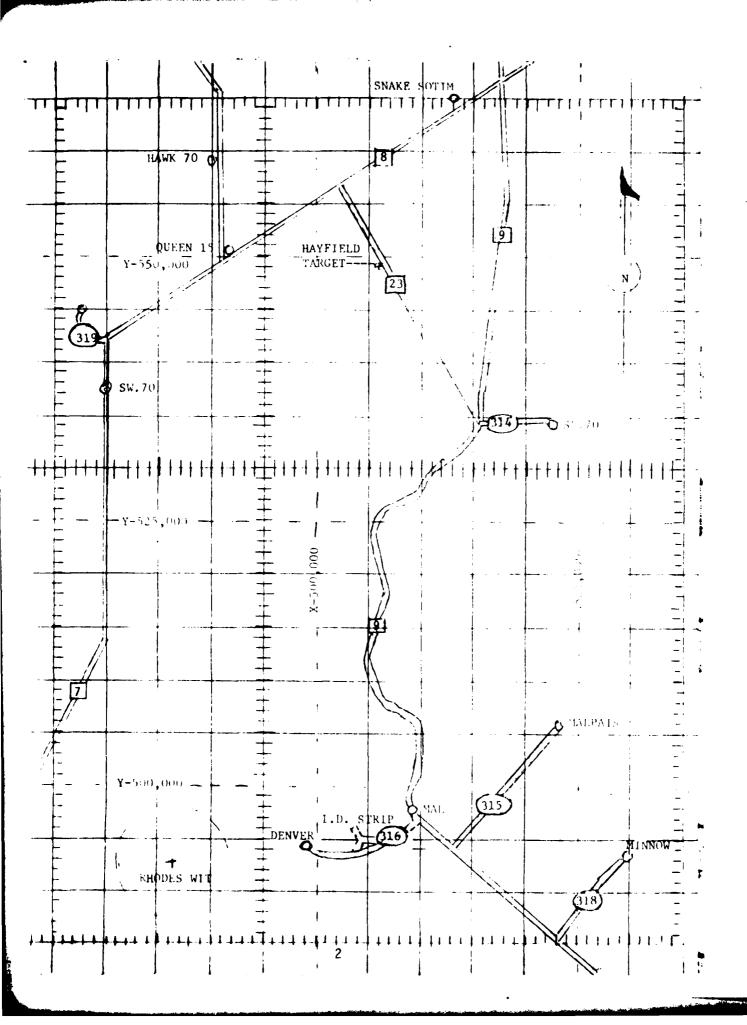


TABLE 1. Surface Observations taken at 1130 MST, 11 January 1980, at Snake Site, 197058 MLRS, Missile Numbers 331, 196, Round Numbers B-72, B-73.

ELEVATION	4471.	FT/MSL
PRESSURE	867.8	MBS
TEMPERATURE	9.2	°c
RELATIVE HUMIDITY	76	oy,
DEW POINT	5.1	°c
DENSITY		GM/M ³
WIND SPEED	04	KTS
WIND DIRECTION	180	DEGREES
CLOUD COVER	10	Ns

PILOT BALLOON MEASURED WIND DATA

TABLE 2									
RELEASED	FROM SNAK	E SITE		DATE	11 January	/ 1980		TIME 105	0 MST
TRACKER	COO	RDINATE	s (W	STM) Y=	UNKNOWN	Y.	UNKNOWN	<u> </u>	NKNOWN
NOTE: W	IND DIRECTI	ONS ARE	KEF	ERENCED T	O TRUE NORTH	1.			
HEIGHTS	ARE METERS	AGL <u>XXXX</u>	OR	FEET AGL_	·				
HEIGHT AGL	DIRECTION DEGREES	SPEED KTS		HEIGHT AGI	DIRECTION DEGREES	SPEED KIS	HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
SFC	180	03							
90	200	04							
150	149	06							
210	160	08							
270	167	11		 					
330	168	14							
390	158	15	1						
500	140	18							
650	133	20		l .					
800	141	21							
950	154	13							
1150	192	11							
1350	235	14			!				
1550	238	14	1		1				
1750	251	14			!	,			
2000	267	13		· · · · · · · · · · · · · · · · · · ·					1
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PILOT BALLOON MEASURED. WIND DATA

TABLE_3										
RELEASED	FROM SNAK	E SITE		DATE	11 Januar	y 1980	··	J	_TIMI 1130	MST
TRACKER	C00	RDINATE	S (W	ISTM) X=	UNKNOWN	Ψ γ.	UNK	NOWN	WNK	NOWN
					O TRUE NORT	н.				
	ARE METERS									
HEIGHT AGL	DIRECTION DEGREES	SPEED KTS		HEIGHT AGL	DIRECTION DEGREES	SPEED KTS	HE AG	I GHT L	DIRECTION DEGREES	
SFC	190	02]							
90	186	04]							
150	207	08	}							
210	187_	09								
270	187	13_								
330	185	13								
390	178	15								
500	175	16								
650	167	09								
800	MISG	MISG								
950	MISG	MISG								
1150	AISG	MISG	1							
1350	MISG	MISG								
1550	213	09								
1750	214	08			<u> </u>					
2000	243	05								
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PILOT BALLOON MEASURED WIND DATA

TABLE 4										
RELEASED	FROM DENY	ER SITE		1TAG	11 Januar	ry 1980			_ TIME	MST
TRACKER	1.434	平(INATE	s (ws	rm) x -	499,064.03	Ą	49	3,904.12	412	3.12
NOTE: W	IND DIRECT	IMIS APE	PEFER	RENCED TO	, TRUE NORTI	١.				
HEIGHTS	ARE METERS	YOF XXX	0R f	El AGL.						
HEIGHT	DIRECTION				DIRECTION	[नामाना		HELGHT	DIPECTION	
AGU II II	DEGREES	1 1 1 1 1		Mat	DESPEES			AGL	DEGREE 15	200
SFC	180	. 06	į ;		 					
90	188	. 09	-							
150	216	. 14				<u>.</u> ;	ļ			· •
210	196	. 14			<u> </u>		!			
270	189	18	:		! 	i 4 - 1 - 1 - 1	:			·
330	190	19	} } 			<u> </u>				·
390	194	23					i		National Control of the Control of t	!
500	194	20	<u> </u>				ļ		-	
650	204	17					ļ			ļ
800	188	17	i							
950	194	18				L l		 		
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DATA		
LEVEL	30008	_
SIGNIFICANT LEVEL	01100	N TO THE

JALLEN TABLE 5

LLEN

GEODETIC COORDINATES 33.16712 LAT DEG 106.49511 LON DEG

PRESSURE	GE0	TEMPL	TEMPERATURE	REL.HUM.
•		AIR	DEWPOINT	PERCENT
MILLIBAK	S MSL	DEGREES	CENT 16KADE	
8.088	•	8.7	3.1	68.0
•	36	•	•	0.60
	*	9.9	8.5	2
UB.	6349.9	•	•	;
7/0.0		1.2	•	0.46
9	10163.6	-2.9	-3.0	0.66
•	•	9.9-	-6.7	6
2.865	•	-7.1	Z• L-	0.66
564.2	•	-9-3	4.6-	6
200.0	18761.5	-14.6	-15.5	
4.99.4		ċ	-23.3	75.0
٠		'n	•	:
•		ċ		å
383.0	25252.4	-27.3	-31.4	68.0
•			-32.7	:0
•	_	-34.2	-39.4	59.0
•	•	-	0·ch-	0.99
•	•	3.	6	÷
•		å		
•	•	3		
:	41437.1	9.49-		
`	•	-63.0		
165.4	-	-58.6		
56.	9.40544	-55.8		
5	_	-56.8		
	_	-55.7		
15.	50764.3	h•49-		
•		+•59 -		
9	53672.0	7		
ġ	_	8		
;	•	9.49-		
•	60823.0	ŝ		
61.0	3606.	-62.5		
4	5408	-65.6		
•	506.	•		
ġ	01.	•		
43.B	285	-64.2		
٠		-60.2		
32.2	D	-63.0		
36.0	c	-61.5		

4051.00 FEET MSL	1130 HKS MST	D
ALTITUDE		NO.
STATION	11 JAN. 60	ASCENS 1

SIGNIFICANT LEVEL DATA 0110030008 JALLEN

TABLE 5(CONT)

TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET

-58.7 -62.3 -59.5 -54.7 81627.8 85781.6 85389.7 91327.8

25.2 20.6 20.0 15.8

REL.HUM. PERCENT

GEODETIC COORDINATES 33.16712 LAT DEG 106.49511 LON DEG

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A N	30 HRS BAIR BAIR BS-C CS-C CS-C CS-C CS-C CS-C CS-C CS-C	는 <u>목본</u>	REL.HUM. PERCENT 68.0 70.3 74.9 78.3 89.0 95.1	JALLEN TABLE 6 DENSITY SP GM/CUBIC S METER K 1085.1 1074.0 1055.5 1053.0 1007.5 9/9.2		MIND DATA DIRECTION S DEGREES(IN) K 202.6 202.6 202.6	33. 106. 17A SPEED KNOTS	33.16712 LAT DEG 106.49511 LON DEG A INUEX SPEED OF
ESSURE ENDOR BBD.8 BBD.8 BBD.8 BBD.8 BBD.8 BBD.8 BBD.8 FBD.9	3 .	CENTIGRADE CENTIGRADE CENTIGRADE CONTIGRADE	REL.HUM. PERCENT 68.0 78.3 78.3 78.3 85.1 89.0 95.7	7 4004000400	SPEED OF SOUND KNOTS 655.1 655.1 650.3 649.7 649.7 649.7	WIND DA DIRECTION DEGREES(TN) 202-6 202-6 202-6 203-6	2.3	EX
-	3.	CENTURE UEWPOINT CENTIGRADE 3.1 2.0 2.3 1.8 1.8 1.2 1.5 1.5	REL.HUM. PERCENT 68.0 70.3 74.9 78.3 81.6 85.1 89.0 92.8		SPEED OF SOUND KNOTS 655.1 652.7 652.7 651.7 651.7 649.7 649.7	MIND DA DIRECTION DEGREES (TN) 202.6 202.6 202.6 202.6	SPEED KNOTS	INDEX OF
-		CENTIGRADE 3.1 3.1 2.0 2.0 2.1 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	PERCENT 68.0 78.3 78.3 78.3 78.3 98.1 885.1 98.0 95.7	4001000000	SOUND KNOTS 655.1 652.1 652.1 650.7 649.7 649.7 649.7	DIRECTION DEGREES (TN) 202.6 202.6 202.6	SPEED KNOTS	OF DEFENDA
6600 6600 6000 6000 6000 6000 6000 600	0 R C N C C C C C C C C C C C C C C C C C		68.0 78.3 78.3 885.1 992.2 95.7	1085.1 1074.0 1055.5 1059.1 1023.0 973.2 973.2 964.2		202.6 202.6 202.6		
66666 61466 61466 7466 7466 7466 7466 74			2017 2017 2018 2019 2019 2019 2019 2019 2019 2019 2019	1055.5 1055.5 1055.5 1053.0 1053.0 993.2 979.2 964.2		202.6	9	1.000278
6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		, , , , , , , , , , , , , , , , , , ,	24.0 88.0 88.0 89.0 99.0 7.0 6.0 7.0 7.0	1055-5 1055-5 1023-0 1023-0 1007-5 943-2 964-2		202.6 202.6	, כ י	# C C C C C C
6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	111 111 111 111 111 111 111 111 111 11		28 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1059-1 1059-1 1023-0 1007-5 943-2 964-2		202.6	7.5	1.00021
6115-1 604-1 704-0 704-0 701-1 701-1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		85.1 85.1 89.0 97.7 95.7	9993. 9973. 979.	644 644 644 644 644 644 644 644 644 644	263.0	6	1.000267
604.0 /74.0 /60.1 /10.4			85.1 89.0 92.4 95.7	993. 979. 979. 964.	649 649 649 649 649		10.6	1.000263
/89.5 /74.6 /60.1 /45.8 /31.7	6 c c c c c c c c c c c c c c c c c c c		89.0 92.8 95.7 96.7	993.2 979.2 964.2 964.2	646.7 645.7 645.6	204.3	10.3	00025
/74.6 /60.1 /45.8 /31./	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11111	92.8 94.7 95.7	9/9·2 964·2	646.7	203.4	10.6	1.000254
/60-1 /45-8 /31-/	1111		94.7 95.7 96.7	964.2	645.6	201.4	11.3	1.000250
745.8 731.7 717.9	1111 1111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	95.7	948.9		201.9	11.1	1.000245
/31./	-1.c	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7-96		0.550	203.8	10.2	1.000241
717.5	-1.8 -2.6	1221		943.9	_	211.5	7.6	1.000236
407	-2.6	-2.8	7.76	919.2	_	234.2	5.7	1.000232
***	;	1	98.7	2.406	641.0	2/2.5	6.2	1.000227
0-169	+·?-	3.5	0.66	6.688	640.7	284.7	60	1.000223
67/10	-4.1	74.5	0.66	875.3		283.0	9.7	1.000218
9.499	B. 4-	6.4-	0.66	860.9		276.6	10.7	1.000214
652.1	-5.b	-5.6	0.66	846.7		209.B	12.3	1.000210
639.6	-6.2	-6.3	0.66	832·8		202.2	14.4	•000050
657.3	1.9-	-6.8	99.0	818.3		203.3	17.6	1.0002u2
5.519	F-6-8	-7.0	0.66	803.0		261.3	21.7	1.000198
P03.4	-7. 0	-7.2	0.66	786.1		259.4	26.6	1.000195
291.1	-7. 5	-7.6	0.66	774.3		258·9	29.4	1.000191
560.3	-8.2	-8-4	0.66	761.5	9	258.8	30.9	1.000187
269.0	0.6-	-9.1	0.66	748.9		259.3	30.4	1.000163
	₽•6-	-10.0	98.4	736.6	•	259.2	31.1	1.000180
	-10.7	-11.0	97.5	724.6		259.2	32.4	1.000176
	-11.5	-12.0	96.5	712.8		261.0	35.8	1.000172
	-12.4	-13.0	95.5	701.2		262.5	38.5	1.000169
	-13.3	-14.0	94.5	6.689	624.5	263.0	40.3	1.000165
	-14.1	-15.0	93.5	676.5	4.7.9	265.5	41.0	1.000162
	-15.0	-16.1	91.7	h•299		207.3	41.2	1.000159
	-15.9	-17.3	88.8	656.2		269.5	40.9	1.000155
475.5	-16.7	-18.5	96.0	645.2		270.8	40.0	1.000152
460.0	-17.5	-19.7	83.2	4.469		2/0.6	38.1	1.000149
450.0	-18.4	-20.9	90.4	623+8		269.0	36.2	1.000146
447.5	-19.2	-22.2	77.5	613.4	_	204.6	34.7	1.000143
0	-20.1	-23.3	75.5	603.2	619.9	200.0	36.0	1.000140
429.3	-21.3	-23.8	80.3	593.7	010.5	25/43	38.6	-
450.1	-22.5	-24.3	85.2	584.3		256.0	43.4	1.000135
	-23.1	-24.8	0.06	575.1	615	256.1	44.0	1.000133

UPPER AIR DATA	0110030008	JALLEN
	ر	

A 60 %	11TUDE 40	30.	FEET MSL IRS MSI	_	UPPER AIM LATA 0110030008 Jallen	08 08 08		GEODETIC 33.10 106.49	DETIC COORDINATES 33.16712 LAT GEG 106.49511 LON DEG
						(CONT)			
784 111	PRESSURE MILLIBARS	1EMP AIR DEGREES	TEMPERATURE R DEWPOINT EES CENTIGRADE	REL . HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DAT DIRECTION DEGREES(IN)	TA SPEED KNOTS	INDEX OF REFRACTION
7	7.07	1-54-	12K.B	A2.6	5,65.		0.0000	45.4	0.1000.1
•,	395.3	· s		75.3	5.0	19	50.	9	000
٠,	387.1	-26.8	-30.5	70.4	547.0	611	255.5	48.1	ıā
•	0.676	1-28.0	-31.7	70.0	58		254.7	49.3	.00012
•	371.1	-59.4	-32.5	74.1		9119	252.4	50.8	00012
•	565.5	-30.5	-33.9	72.0	521.3		250.5	52.5	1.000118
	355.5	-31.6	-35.5	68.3	512.5		2.642	54.5	.00011
·	V. 740	-32.6	-37.0	64.5	503.8	\$ 09	248.1	56.9	1.000114
-	240.2	-33.7	-38.6	60.8	•	6 02•	•	59.7	1.000112
	333.4	-34.9	-39.9	59.7	_		246.2	62.1	1.000110
	325.9	-36.2	-41.0	61.0	•		8.442	63.6	1.000108
	318.8	-37.5	-42.0	62.3	4/1.3		243.7	9.49	1.000106
•	311.9	-38.9	-43.1	63.7	463.6	გმი	243.3	64.8	
	302.1	7.04-	2·44-	65.0	20.		243.1	65.1	•
	4.86%	-41.5	-45.5	65.3	න න		3.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5	65.8	1.000101
	1.162	0.04	7 • / 5 = 1	7 × 0	O • I + +		0 • 0 • 0 • 0 • 0 • 0 • 0 • 0 • 0 • 0 •	5.00 0.00	660000•1
	270.0	127.00	145	57. 51. 60*#	10 to	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0 · 7 ± 0	0 0 0	1.000097
	272.4	-47.5	-54.9	#+6.04	20.		24.54.4	65.7	1.000094
	₹ 097	7.84-	-58.6	÷	413.1		243.6	67.0	
	460.1	-50.1	•	*6*8	406.2		243.8	1.69	1.000091
	2.h92	-51.5	-700-	7.9**	•		243·8	72.5	
	240.3	-55·B			392.0	578.2	243.8	75.8	
	* · 7 h Z	154.0			385.4		242.5	78.6	
	230.b	-55.2			3/6.3		241.3	81.3	
	<31.0	-5a.4			371.3		540.4	84.5	1.000063
	6222	9.75			364.5		259.7	87.9	
	750-1	-58·B			357.8		259.5	8.06	1.000080
	6.412	0.09-			351.2		239.9	91.9	1.000078
	0.607	7.10-			お・サナウ		5.062	92.9	1.000077
	0.407	-62.4			358.5		242.1	7. 06	
	6.661	-63.6			352.3		2.442	87.0	
	195.u	-63.9	-		324.6	503	240.7	84.3	
	2.061	1.64.1			317.0		250.0	83.2	
	185.0	+ •+9-		•	•	5e2	255.4	85.5	1.000069
	181.0	-64.5			302.3	502	250.1	86.1	1.000067
	170.0	-63.1			293.7	გიკ		90•3	1.000065
	172.3	1.29-			35	505	200.1	91.5	1.000064
	7.991	-60.3			275.2	~ ∪	203.1	ċ	1.000001
	10401	-58.2			99		265.3	88.0	1.000059

** AF LEAST ONE ASSUMED RELATIVE HUMIDITY VALUL HAS USED IN THE INTERPOLATION.

GEODETIC COORDINATES 33.16712 LAT DEG 106.49511 LON DEG	INDEX ED OF IS REFACTION	£ 411440 - £		1:6000	1 : 000				4.0000 L				0000 · •			•		Nacional Association (National Association (0.74	~~		-	-m	~·		6.		D 2	1	N :=	-		-		-	-		1.0000	ן.משטטה	1.0000
96.00	WIND DATA DIRECTION SPEED DEGREESITNI KNOTS	•	.	•	2671B 75				, TA	0 40 40	n •s	. .			• 1	3	. .1							g:ca	S.	•	.	.		. ~			0			30	-	. 20	15.4	1311	7.7.4
M LATA ODOB (CONT)	SPEED OF SOUND KNUTS	í	572	574.	5)3,6	2	202			0,0			2 4					10 to																					56.3	564	50.5
UPPER AIN LAT 0110030008 JALLEN TABLE 6 (CONT	DENSITY GM/CUBIC NETER	14	D. 902	250.7	245:6	たったん	4.4.0	7.00	2000	2 6 6 7 7 7	777.16	2.4	Digital of	14,4)14	8 × × × ×	404	4.004	467.4	2272	177.8	Z-7/1	110:1	167:0	1629	1000	E 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0.647		0	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	431:4	12854	125	12213	119:4	11644	113.2	110.2	107.2	1.04.3	101.5
J -	rel.Hum. Percent	3.00		?	70.4	0.11/	7.1.1	72.0	4,9	4.5	200	7.00	61.0	62.3	1.3.7	6.4.4	6,10	6.54	5.05	•	• • • • • •	• • • • • •	* * * * * * * * * * * * * * * * * * * *																		
1 MSL M31	MPERATURE UEWPOINT S CENTIGRANE	B 4 3 C +	· :		Ξ	-31.7	6.00	67.64		6.5.	40.6.		-41.0	6.01	1.1.	c		-117.5	1	-51.5	E. • 1, C, =	1000	•	/ • / -																	
1.00 FEE 130 HRS	TEMPI AIN UEGKEES	•		55.	581	583	3.5	3	77	ה הרכו	7 7 7	מ כ	-4016	# V .	T	Bank	•		-69.2	#:K9-	-6634	-6714	-6810	-6310	#67eF	1 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N 10 11	0.7	5119	-684	165.1	-65:2	=F.9.3	=69tH	-6315	#68a#	=	26413	3	÷	Ň
1UDE 405	PRESSUME MILLIBARS	7.4700	70007	126:4	1879	349:Y	245.66	44.7.4	4.44	34.4		B2554	27.100	93.50	D-0-C	41.7.1	17.00	£1.1 od	fillise	196:4	105:4	6:003	7986	6166	B = 7 5 \	2016	7.40	000	, 02.5°	P 1 1 1 1	9.94.	4,6°%	9:56	45.54	177:1	h169,	1.19	16010	9.10	16263	161.3
Station acti 11 Jan. 60 Ascension 110	GEUME INIC ALIIUNE HSE FEET	•			45hU8 28	450,UU:A			St. Hills A			4. W. UII.	B.1111124	K91,881.8	מינית מינים	501,00	D.UU.L	D15.110.0	521100.4	32560:6	3.010c	3.5.UU.d	24500:6	# 0005 m	0.00000 1.00000	0.000000000000000000000000000000000000		,	3/40000	98000	3651111:3	941,110 : ŋ	8.011.04.0		80,011	61000	61500.0	82n110.A	25,000	65(10B1B)	835110.11

Assembly of a figure of the second

		dair
STATION ALTITUDE	4051.00 FEET MSL	5
11 JAN. 60	1130 HRS MST	A.J.
ASCENSION NO.	ASCENSION NO. 8	. +

64.9-6.59-

> 55.5 24.5 51.5

-66.1

52.0

-66.4

67000.0

2004 1.59-

> 49.0 47.0

0.49-

MILLIBAMS PHESSURE

> MSL FEET AL 11TUDE

0.000+0

65000.0 0.00542 0.00000 0.00000 0.005/0 0.00000 C8500.0 0.00000

GEUME INIC

PER AIR DATA

GEODETIC COORDINATES 33-16712 LAT CEG 106-49511 LON DEG .000012 1.000022 .00001 020000. 020000 6100000 610000. .000018 .000018 .000017 .000016 .000010 .000016 .000015 .000015 .00000 .000013 .0000010 .00001 .000017 *1000U* +1000U. .000013 .000013 .000012 .000012 .00001 .0000010 •00000• **6000000** .00000· .00000 .000000 1.000022 .000010 017000. 1.00000 .000011 .000011 REFHACTION INUEX 33.8 34.4 36.0 37.1 38.2 39.3 39.6 39.7 39.8 28. 3 34.0 339.5 41.5 40.9 39.9 34.5 35.0 37.0 31.5 SPEED KNOTS WINC DATA DIRECTION DEGREES (TI) 263.9 13.0 213.4 24000 502.7 3.102 214.2 202.5 204.8 4.197 214.5 3.0.45 6.06 2.74 . 3 0.407 \$01.3 264.0 203.6 X . 0 . 2 11012 0.6/2 288.1 6.408 4.10 3.00 203.1 4.002 4.06g V-60 1007 00/7 7,004 4.7/2 0.07 7 . 4 . 7 SPEEU OF 562.2 561.2 560.9 5,000 559.4 501.2 502.9 504.7 564 2 500 0 500.3 507.7 507.4 507.4 503.4 5.00,5 503 7 5.000 5.000 5.000 ა. გეგები გეგები გეგები გეგები გეგები 500.7 507.3 507.8 5.60 5.0.0 £.00. 500.0 5:0:4 SOUND KNOTS 3.60 5,00.7 5,4.3 570.1 TABLE 6 (CONT) GMZCUBIC RLTER 3.98 84.0 13.9 72.0 6.3 . 7 0.00 5.64 53.8 54.8 23.0 45.2 93.3 91.1 6•08 R . 6/ 17.4 75.5 67.5 64.5 53.6 61.6 50.1 2.54 50.8 9.65 46.2 40.0 45.7 42.3 40.3 41.2 REL. HUM. DENSITY PERCENT AIR DEWPOINT DEGREES CENTIGRADE **TEMPERATURE**

70000.0

0.00569

11000.0 11500.0

-63.0 _53.8 -63.8 -63.5

1.04

40.00

45.3 42.3 41.0

...

-0110

-61.1

30.4 30.5

39.3 37.4

72600.0 72500.0 73000.0

13500 € 0.000.47 0.0000

-61.0 -61.

> 35.6 24.0 33.4 34.3 31.0 30.8 30.0 29.3

0.00547 15500.0 700000

-62.1 4.59-62.6

7.20-163.0 1.79 -61.0 1.09-

-61.1 -F.U. 4 0.09--59.0

0.00597

17500.0 700000

10500.0 77.1100.0 24.6

7.3500.0 3.00,00 910019

0.000161 0.00000

27.3

C+1, 3-

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1000

-5. J. U

-56--58.8

2t.b 2c.U

\$ 2 C 7.42

0.00210 0.00020 0.00220

-60.2

101. C " D O -**-60.0**

		1	•	•	UPPER AIR DATA	LATA			•
A ASTIAIS	LITTOPE *O	31 00 · KE	7 7		0110030008	90		6EODE TI	GEODETIC COORDINATES
11 JAN. 6	11 JAN 60 1150	1130 HKS	THS MST		JALLEN			33.	33-16712 LAT DE6
ASCENSION	NO.							106.	49511 1 ON 1.FG
					TABLE 6 (CONT)	CONT)			
GEUNE THIC AL I I TUDE	PRESSURE	TEM AIR	TEMPERATURE	REL.HUM. PERCENT	DENSITY GM/CUBIC	SPEED OF	WIND DATA	1A SPEED	INDEX
MSL FEE	MILLIBAKS	DEGREES	MILLIBANS DEGREES CENTIGRADE] 	PE TER	KNOTS	DEGREES (TN)	KNOTS	REFRACTION
8*000.0	22.5	-60.8			36.8	567.8	251.9	32.9	1.000008
84500.0	21.9	-61.2			36.0		251.7	35.4	1.000008
82000.0	21.4	-61.6			35.2	500.6	251.5	37.9	1.000008
85500.0	50.9	-62.1			34.5		251.7	40.5	1.000008
0.0000		-61.3			33.5	567.0	253.5	43.1	1.000007
86500.0		-29.4			32.4		255.1	45.7	1.000007
87000.0		-54.9			31.6		250.5	48.3	1.000007
87500.0	19.0	-58.4			30.8				1.000007
84000	14.5	4.75-			30.0				1.000007
88500.0		-57.4			29.5	572.2			1.000006
9.00069		-57.0			28.5				1.000006
89500.0		-56.5			27.7				1.000006
90000		-56.0			27.0	574.1			1.000006
90200.0		-55.5			26.3				1.00006
91000.0		-55.0			25.6	575.4			1.000006

MANDATORY LEVELS 0110030006 JALLEN

		1	TABLE 7			
PHESSURE 6	PHESSURE GEOPOLENTIAL		TEMPERATURE	KEL . HUN.	WIND CATA	SATA
MILLIBARS	<u>ب</u> نعا نعا	AIR DEGREFS C	DEWPOINT CFNIIGHADE	PERCENT	DIRECTION DFGREES(TN)	SPEED KNOTS
850.0	5010.	9.9	2.5	75.	202.6	5.8
0.008	6638.	3.7	1.6	86.	2.402	10.2
150.0	8348.	• 1	9	95.	202.4	10.9
0.007	10154.	-2.9	0•€-	•66	277.1	٠ <u>.</u>
0.059	12074.	-5.6	-5.7	, ,	268.3	12.6
0.009	14129.	-7.1	-7.2	.66	258.5	n : 7 ≥
550 • 0	16345.	-10.4	-10.7	96.	0.652	31.8
500.0	18737.	-14.6	-15.5	93.	# 100 F	41.1
0.064	21335.	9.51.	-21.8	70.	505.9	35,1
0.004	24180.	-25.1	-27.8	76.	0,000	40.1
350.0	27317,	-32.3	-36.6	00.	4.8.45	55.0
300.0	50822.	141.2	0.5%-	000	243.4	£5.6
250.0	5478b.	-52.5			24.3.13	74.7
2000	.9398.	-63.0			24440	67,3
175.0	42091.	-63.4			2.69.5	91.7
150.0	45261.	-56.8			265.5	5.83 €
125.0	49038	-61.0			263.0	7.4.7
100.0	53511.	57.7			281.1	71.1
0.08	57953.	0.49-			292.3	45.8
70.0	60020.	9.49-			286.1	56.3
0.09	63719 .	-63.1			579.9	32.4
20.0	67359.	-66.7			281.6	39.6
0.04	71864.	-60.6			281.0	32.4
30.05	77704.	-61.5			280.5	41.5
55.0	61438.	-58.8			262.8	4.70
20.0	65906.	-59.5			254.6	6.43

** AT LEAS! ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.